

67 gilethrarghrSerAlaLeuLeuAspAlaCysGlyPhenylTrpGly 84
 361 CATCACGCGGACCA3CGCCCTCTGGCCTCTCATTCGGGAC 410

84 roleuServAlHisGlyAlaHisGluArgLeuArgAlaGluProValGly 100
 411 CCCTGAGGCTGCAACGGGGCAGCGCAGGGCAGCGGCGGAGCCCGGGC 460

101 ThrPheLeuValAspSerArgInArgAsnCysPhePheAlaLeuSe 117
 461 ACCCTCTGGGCGCAACGRCGTCACGGACTCTCTCGCGCTCG 510

117 rVallysMetAlaSerGlyProThrSerIleArgAlaHisPheGlnAlaG 134
 511 CGTGAAGATGGCTTCGGGCCACAGACATCCGGTGACTTCCAGGCC 560

151 LeuLeuGluHistYValAlaAlaProArgArgMetLeuGlyAlaProLe 167
 611 CTGCTGAGCACTCTGGCCGCGCCGCGCAGCTGGGGCCCGT 660

167 uArgSInArgArgValArgProLeuGlnGluCysArgInArgIleGly 184
 661 GCGCCTCCACTTGACGGCGCCAGCTGCGACTGCTTCGAGCTGAG 710

184 alaAlaAlaValGlyArgGluLeuAlaArgIleProLeuAsnProVal 200
 711 TGGCCGCCGCGGGTCGAGGACTCTGGCCATCCCTTAACCGGTA 760

201 LeuArgAspTyRLeuSerSerPheProPheGlnIle 212
 761 CTCCGCGACTACCTGAGTCTCCCTCCAGATC 796

seq_name: N_Geneseq_36:v42701

seq_documentation_block:
 ID V42701 standard; cDNA; 1087 BP.

AC V42701;
 DT 30-OCT-1998 (first entry)
 DE cDNA encoding a STAT function regulatory protein designated SIS-1.
 KW SIS-1; STAT-induced inhibitor; STAT function;
 KW JAK/STAT signal transmission system; SIS1; STAT5; inhibitor;
 KW tyrosine phosphorylation; gp130; cytokine-regulating protein; CIS;
 KW screen; cytokine regulatory; inhibitory activity; ds.
 KW Mus sp.
 FR CDS
 FT Location/Qualifiers
 FT 16..654 /tag= a
 PN W09830688-A1.
 PD 16-JUL-1998.
 PR 23-OCT-1997; J03860.
 PR 10-JAN-1997; JP-014737.
 PA (KISHI) KISHIMOTO T.
 PT Naka T;
 DR W09830688-A1.
 DR P-PSDB: W0962.
 PT STAT function regulatory protein - used in screening candidate
 PT substances for cytokine regulatory activity
 PS Claim 5: Pages 39-41; 60p; Japanese.

The present sequence encodes a protein (designated SIS-1, STAT-induced inhibitor of STAT function 1) which regulates STAT protein function in the JAK/STAT signal transmission system in mammalian cells. The protein is induced by STAT3 or STAT6. It inhibits tyrosine phosphorylation of STAT3 and of gp130. The SIS-1 protein sequence contains an SH2 domain and is related to the cytokine-regulating protein CIS. SIS-1, or transfectant cells expressing it, may be used to screen candidate substances for cytokine regulatory or inhibitory activity.

Sequence 1087 BP; 171 A; 363 C; 305 G; 248 T;

alignment_scores:
 Quality: 1093.00 Length: 212
 Ratio: 5.180 Gaps: 0
 Percent similarity: 99.528 Percent identity: 98.585

alignement_block:
 1 MetValAlaArgAsnGlnAlaAlaLysPheAsnAlaLeSerProAlaI 17
 16 ATGGTAGCACGCAACCGAGGNGCAGCGACATCGGATCTCCGGGAGC 65

17 algluProArgArgArgSerGluProSerSerSerSerSerSerSerP 34
 66 AGAGCCCCAGGGGGTCAGAGCCCTCCCTGCTCTCGCTTCGCCCCG 115

51 ProGlyAspThrHisPheArgThrPheArgSerHisSerAspTyRArg 67
 166 CCTGGCGACACTCTACTCCGCCACCTCCGCTCCACTCGATTAACCGG 215

67 gilethrarghrSerAlaLeuLeuAspAlaCysGlyPhenylTrpGly 84
 216 CATCACGCGACCCAGGCCCTCTGGACGCCCTGGCTCTATGGGAC 265

84 roleuServAlHisGlyAlaHisGluArgLeuArgAlaGluProValGly 100
 316 CCTCTGAGCGTGCACGGGGCACCGAGCGGCCTGGCCAGCCCCGG 315

101 ThrPheLeuValArgAspSerArgInArgAsnCysPhePheAlaLeuSe 117
 316 ACCCTCTGGTGCAGTCGCCACCGAGCTGCTTCGGCT 365

117 rVallysMetAlaSerGlyProThrSerIleArgAlaGluProValGly 134
 366 CGTGAGAGGGCTTGGGCCACAGACATCCGGACTCTCCAGGCC 415

134 YarPheHisLeuAspGlySerArgGluThrPheAspCysLeuPheGlu 150
 416 GCGCTTCCACTTGACGCCAACCGCAGACCTGACTGCTTCGAG 465

151 LeuLeuGluHistYValAlaAlaProArgArgMetLeuGlyAlaProLe 167
 466 CTGCTGGGACTACGTGGGGCCGCCGAGCTGACTGCTTCGAG 515

167 uArgInArgArgValArgProLeuGlnGluCysArgInArgIleGly 184
 516 GCGCCAGCGCGCGCGCGCGCAGCTGGCCAGCTGGGGCCCGT 565

184 alaAlaAlaValGlyArgGluLeuAlaArgIleProLeuAsnProVal 200
 566 TGGCCGCCGGTGGCGGAGAACCTGGGCCATCCCTTAACCGGTA 615

201 LeuArgAspTyRLeuSerSerPheProPheGlnIle 212
 616 CTCCGCGACTACCTGAGTCTCCCTCCAGATC 651

seq_name: N_Geneseq_36:v38663

seq_documentation_block:
 ID V38663 standard; DNA; 2807 BP.
 AC V38663;
 DT 27-OCT-1998 (first entry)
 DE Rattus norvegicus SOCS1 gene.
 KW SOCS; suppressor of cytokine signalling; PCR primer;
 KW autoimmune disease; diagnosis; cancer; treatment;
 KW cytokine mediated cellular responsiveness; hyperimmunity;

KW immunosuppression; allergies; hypertension; ss.
OS *Rattus norvegicus*
FH Location/Qualifiers
Key 1/39 . 2377
FT CDS
FT /product= SOCS1 protein
FT W09820023-A1.
PD 14-MAY-1998.
PF 31-OCT-1997; AU0729.
PR 14-FEB-1997; AU-005117.
PR 01-NOV-1996; AU-003384.
PA (HALL-) HALL INST MEDICAL RES WALTER & ELIZA.
PI Alexander WS, Hilton DJ, Metcalf D, Nicholson SE,
PI Nicola NA, Richardson RT, Starr R, Viney EM, Willson TA;
WPI; 98 28654/25.
DR P-PSDB; W62617.
PT suppressor of cytokine signalling proteins - useful to treat
PT disease, injury or abnormality involving cytokine mediated cellular
PT responsiveness e.g. hyperimmunity, immunosuppression, allergies and
PT hypertension.
PS Claim 14; Page 117-118; 325pp; English.
CC The sequence is that of a gene encoding a suppressor of cytokine
CC signalling protein (SOCS), which can be used to screen for naturally
CC occurring antibodies to SOCS, which may occur, e.g. in some autoimmune
CC diseases. Alternatively, specific antibodies can be used to
CC screen for SOCS, which is useful as a knowledge of SOCS levels
CC may be important for the diagnosis of certain cancers. Soluble
CC SOCS polypeptides can be used to treat disease, injury or
CC abnormality involving cytokine mediated cellular responsiveness,
CC e.g. hyperimmunity, immunosuppression, allergies and hypertension.
SQ Sequence 2807 BP; 507 A; 906 C; 899 G; 495 T;

alignment_scores:
Quality: 1073.00 **Length:** 212
Percent Similarity: 98.585 **Gaps:** 0
Percent Identity: 96.226

alignment_block:
US-08-962-560A-4 x V38663 ..

Align seg 1/1 to: v38663 from: 1 to: 2807

1 MetValAlaArgAsnGlnValAlaAlaAspAsnAlaLeSerProAlaAl 17
1739 ATGGTAGCAGCTAACAGGTGGAAAGCCGACAATCGATCTCCGGCATC 1788

17 aGluProAlaProAlaProAlaProAlaProAlaValProAlaProAla 50
1789 AGACCCGAGGGGCCAGAGCAATCCCTCGTCCCTCGTCTCGTCTCGC 1838

34 roAlAlaProAlaProAlaProAlaProAlaProAlaProAlaProAla 50
1839 CGGGGCCCGGCCGTCGGGCGTCCGGGCTGCCGGGGCT 1888

51 ProGlyAspThrHisPheArgGlyPheAspSerIleSerAspTyTrArg 67
1889 CCGGGCGACACTCACTCCGACCTTCCGCTCCCACTCAGTACCGGGCG 1938

67 gIleThrArgGlyThrSerAlaLeuLeuAspAlaCysGlyPheTyTrpGly 84
1939 CTCAGCGGACCAAGCGCTCTCCGAGCGCTGCGGCTCTACTGGGGAC 1988

84 roLeuSerValHisGlyIlyAlaHisGluAspLeuGlyLeuArgAlaGluProAlaGly 100
1989 CCCAGAGCGCTGCAAGGGGCCACCGAACGCGCTTCGGAACCGGGCG 2038

101 ThrPheLeuValAlaGlyAspSerArgGlnGlyAsnGlyPheAspCysLeuPheGlu 117
2039 ACCTCTCTGTCGCCGAGCTGCGCAGCTGCTCTCGGCCCTCG 2088

117 rValIlySmMtaLaserGlyProTrpSerIleArgValHisPheGlnAlaG 134

seq_name: N_Genesq_36.v38662
seq_documentation_block:
ID V38662; standard; DNA; 1094 BP.
AC V38662;
DT 27-OCT-1998 (first entry)
DE Homo sapiens
KW SOCS; suppressor of cytokine signalling; PCR primer;
KW autoimmune disease; diagnosis; cancer; treatment;
KW cytokine mediated cellular responsiveness; hyperimmunity;
KW immunosuppression; allergies; hypertension; ss.
OS Homo sapiens.
FH Location/Qualifiers
Key 24. . 659
FT CDS
FT /product= SOCS1 protein
FT W09820023-A1.
PD 14-MAY-1998.
PR 31-OCT-1997; AU0729.
PR 14-FEB-1997; AU-005117.
PR 01-NOV-1996; AU-003384.
PA (HALL-) HALL INST MEDICAL RES WALTER & ELIZA.
PI Alexander WS, Hilton DJ, Metcalf D, Nicholson SE,
PI Nicola NA, Richardson RT, Starr R, Viney EM, Willson TA;
WPI; 98 28654/25.
DR P-PSDB; W62617.
PT suppressor of cytokine signalling proteins - useful to treat
PT disease, injury or abnormality involving cytokine mediated cellular
PT responsiveness e.g. hyperimmunity, immunosuppression, allergies and
PT hypertension.
PS Claim 14; Page 115-116; 325pp; English.
CC The sequence is that of a gene encoding a suppressor of cytokine
CC signalling protein (SOCS). SOCS can be used to screen for naturally
CC occurring antibodies to SOCS, which may occur, e.g. in some autoimmune
CC diseases. Alternatively, specific antibodies can be used to
CC screen for SOCS, which is useful as a knowledge of SOCS levels
CC may be important for the diagnosis of certain cancers. Soluble
CC SOCS polypeptides can be used to treat disease, injury or
CC abnormality involving cytokine mediated cellular responsiveness,
CC e.g. hyperimmunity, immunosuppression, allergies and hypertension.
SQ Sequence 1094 BP; 167 A; 381 C; 313 G; 233 T;

alignment_scores:
Quality: 1053.50 **Length:** 212
Percent Similarity: 98.585 **Gaps:** 1
Percent Identity: 95.283

alignment_block:
US-08-962-560A-4 x V38662 ..

align seq 1/1 to: V38662 from: 1 to: 1094

1 MetValIaArgGasnGlnValAlaLalaAspAsnAlaIleSerProAlaAl 17

24 ATGGTAGCACACCCAGTGCCGCCAACGTCACGCCGC 73

17 aGluProArgGargArgSerGluProSerSerSerSerSerSerSerP 34

74 AGACGCCGAGGGGCCAGACCT.. TCTCTCTCTCCCTCCCTCGC 120

34 IolAlAlProValArgProAlaProIolAlAlProAlaAlProAlaAl 50

121 CCGCGGCCCCGGCGCGCCGCGCGCCGCGTCCGGCCGCCGCC 170

51 ProGlyAspThrHisPheArgThrPheArgSerIleAspAlaCysGlyPhy 67

67 gIleThrArgThrSerAlaLeuLeuAspAlaCysGlyPhyTrpGlyP 84

221 CATCACGCCGCGCAGCGCCTCTCCGACGCCCTGGGATCTACGGGGC 270

84 roleuSerValHisGlyAlaHisIluArgLeuAlaGluProValAla 100

271 CCCGAGGCGTGCAGGGGGCACAGCGCCTGCCGCCAGGCCGGGGC 320

101 ThrPheLeuValArgAspSerArgGlnArgAsnCysPhePheAlaLeu 117

321 ACCCTCCGCTGGCCGAGCCGCCAGGGAACTGGCTTTCGCCCTAG 370

117 rValIysMetAlaSerGlyProThrSerIleArgValIlePheGlnAla 134

371 CGTGGAGATGGCCCTGGGCCAGGAGCTCCGGCTGCCTGACTTCAGGGC 420

134 IyArgPheIleLeuAspGlySerIrgLluThrPheAspCysLeuPheGlu 150

421 GGCCTTTCACCTGATGGCCGAGCAGCTGACTTGCTGCCTCTTCAG 470

151 LeuLeuGluIleIleValAlaAlaProAlaProArgMetLeuGlyAlaProle 167

471 CTGCTGGGACACTTGCTGCTGGCCGCGCCGCTGCTGGGGGGCCCT 520

167 uArgGlnAlaGargValAlaGProLeuGluGlnGluLeuCysArgIleGly 184

521 GCGCAGGCCGCCGCTGCCGCCGCCAGGAGCTGGCCCAAGGCATCG 570

184 AlaAlaAlaValGlyArgGluAsnLeuAlaArgIleProLeuAsnProVal 200

571 TGGCACCTGGGCCGCGCAGAACCTGGCTCGCATCCCCCTAACCCGTC 620

201 LeuGluAspTyrosIleSerSerPheProPheGlnIle 212

621 CTGGCGGACTTACCTGAGCTTCCCTTGAGGT 656

seq_name: N_Geneseq_36:T43380

seq_documentation_block:

ID T43380; standard; cDNA; 1960 BP.

AC T43380;

DT 11-MAR-1997 (first entry)

DE Human cytokine response gene CR5.

KW Cytokine response gene; CR5; interleukin-2; IL-2;

KW ligand-stimulated gene expression; diagnosis; therapy; ss.

OS Homo sapiens.

Location/Qualifiers

FH cds 112..888

FT /tag- a

PN W0639427-A1.

PD 12-DEC-1996.

PF 05-JUN-1995; US-09194.

PR 05-JUN-1995; US-455585.

PR 05-JUN-1995; US-462337.

PR 05-JUN-1995; US-463081.

PR 05-JUN-1995; US-462390.

PR 05-JUN-1995; US-46304.

(DART-) DARTMOUTH COLLEGE.

PI Beadling C, Smith KA;

DR W71; 97-043062/04.

DR P-PSDB; W08137.

PT Cytokine response proteins and genes - used in the detection and

therapy of diseases caused by a mutation in the CR coding region

PS Disclosure: Page 25-27; 81pp; English.

CC Isolated from a human IL2 receptor positive T blast cell cDNA

CC library following IL2 stimulation. 6 of these ligand-induced genes

CC (CR1, 2, 3, 5, 6, 8) are novel. The CR5 gene encodes a 28 kDa

CC protein (W08137) that shows homology to src homology 2 (SH2)

CC domains. CR5 expression is markedly induced during IL2-promoted

CC T-cell proliferation. CR genes and polypeptides (W08133-40) are

CC useful as diagnostic or therapeutic agents; CR gene sequences can

SQ be used to detect and treat allelic mutations.

SQ sequence 1960 BP; 402 A; 622 C; 523 G; 413 T;

alignment_scores:

Quality: 249 50 Length: 297

Ratio: 1.835 Gb/s: 10

Percent Similarity: 45.791 Percent Identity: 27.946

alignment_block:

US-08-962-560A-4 x T43380 ..

Align seq 1/1 to: T43380 from: 1 to: 1960

14 SerProAlaAlaGluProArgGargArgSerGluProSerSerSerSe 30

10 GGCCTGGGAGGCCCTACCCAGCAGCCGCCACTGGTCCCTCCAG 59

30 rSerSerProAla...AlaProValAla... 39

60 CCCCGCCGTCAGCCGAGTCCCACRCGGAGTCGCCGTCGCCGGGG 109

40 ...ProAlaProGlyProCysProAlaVal... 46

110 ACATGGCTCTGGTCAGGGACCTGTCCTTGCGTGGCTGGAGCGG 159

46 ...ProAla... 46

160 ACTGGCAAGGCCCTGGGGCCGTCCTGGAGACTGCCCCAAGCGT 209

47 ...ProAla... 48

210 CATGCAGGCCCTGGGCTCTGGCTCGAGGGAGGTGGCAGAGGTTA 259

49 ...ProAlaProGlyAspThrHisPheArgThrPheArgSerIleSerAsP 64

260 CCCAGGCCAGAGAGTGGCCAAAGGGCTGGACCCACGCCACCTGG 309

65 TyArgArgIleThrArgThrSerAlaLeuAspAlaCysGlyPhy 81

310 CTGGTGTGCTAGCCAGAACCTCTCTTACCTCTGGGAATCTGGCTGTA 359

81 RTTGGlyProLeuSerValHisGlyAlaHisGluArgLeuArgAlaGlu 98

360 TTTGGGTTCCATTACGGCCGCGAGCCACACTGTGAGAAGATGC 409

98 royalGlyThrPheLeuValArgAspSerArgGlnArgAsnCysPhe 114

410 CAGAAGGGACGTTCTGTTACTGACAGCACGCCACCCAGCTACCTGTC 459

115 AlaLeuSerValHisMetAlaSerGlyProThrSerIleArgValHisPh 131

460 ACGCTGTCAGTGAACACACTCTGGCCGCCACCAAGTACSCATGAGTA 509

131 eGlnAlaGlyArgPheHisLeuAspGly.....SerArgGlu... 143

seq_documentation_block:
 ID: v69307 standard; cDNA: 2342 BP.
 AC: V69307;
 DT: 01-FEB-1999 (first entry)
 DE: Human EPRG1 cDNA #1.
 KW: EPRG1; EPO primary response gene 1; diagnosis; gene therapy; immunity; disease; vaccine; inoculate; antibody; T cell; anaemia; polycythaemia; cancer; neutropenia; AIDS; diabetes; myelosuppression; allergy; asthma; autoimmune disease; inflammatory disease; chromosome mapping; human; ss; OS: Homo sapiens.
 PN: EP-877030-A2.
 PD: 11-NOV-1998.
 PF: 07-MAY-1998; 303597.
 PR: 01-MAY-1998; US-071342.
 PR: 07-MAY-1997; US-045880.
 PA: (SMIK) SMITHKLINE BECKMAN CORP.
 PT: Dillon S, Lord K;
 DR: WPI; 98-57499/49.
 PR: P-PSDB; W82504.
 PT: New EPO primary response gene polyptides and polynucleotides useful as diagnostic reagents and for prevention and treatment of cancer and autoimmune and inflammatory diseases.
 PS: Claim 14: Page 18-19: 25PP:
 This sequence encodes a novel human EPO primary response gene 1 (EPRG1) polypeptide. EPRG1 polypeptides and polynucleotides are useful for diagnosing a disease or susceptibility to a disease by detecting mutations in the EPRG1 gene using probes containing the EPRG1 nucleotide sequence, or determining EPRG1 polypeptide or mRNA expression levels. EPRG1 polypeptides can be used to screen for agonists and antagonists which bind the EPRG1 polypeptide by measuring resulting mRNA levels with ELISA. These can be used in treatment to activate (agonist) or inhibit (antagonist) eg EPRG1 ligand, receptor or substrate) EPRG1 activity, in addition to direct administration of antisense sequences to prevent expression, or EPRG1 polypeptides to treat conditions associated with a lack of EPRG1 protein. Gene therapy may also be used to affect endogenous EPRG1 polypeptide production. EPRG1 antibodies are useful for inducing an immune response to immunise and prevent diseases, and for isolating EPRG1 clones or purifying the polypeptides by affinity chromatography. EPRG1 polypeptides can be administered directly or as a vaccine to inoculate against disease by inducing an antibody and T-cell response. Diseases diagnosed, prevented or treated include anaemia, polycythaemia, cancer, neutropenia, AIDS, drug-induced anaemia, diabetes, myelosuppression, autoimmune diseases, rheumatoid arthritis and multiple sclerosis, and inflammatory diseases, including asthma and allergies. The EPRG1 polypeptide is also useful for mapping the gene to a chromosome, allowing gene inheritance to be studied through linkage analysis. The 3'-UTR segment of EPRG1 RNA may be useful to screen for agents which modulate RNA stability and turnover rate.
 CC: Sequence 2342 BP; 495 A; 685 C; 655 G; 506 T;
 SQ:

alignment_scores:
 Quality: 234.50 Length: 231
 Ratio: 1.804 Gaps: 9
 Percent Similarity: 56.277 Percent Identity: 29.870

align seg 1/1 to: v69307 from: 1 to: 2342
 US-08-962-560A-4 x v69307 ..

seq_documentation_block:
 ID: v69309 standard; cDNA: 2342 BP.
 AC: V69309;
 DT: 01-FEB-1999 (first entry)
 DE: Human EPRG1 cDNA derived from expressed sequence tags, EST's.
 KW: EPRG1; EPO primary response gene 1; diagnosis; gene therapy; immunity; disease; vaccine; inoculate; antibody; T cell; anaemia; polycythaemia; cancer; neutropenia; AIDS; diabetes; myelosuppression; allergy; asthma; autoimmune disease; inflammatory disease; chromosome mapping; human; expressed sequence tag; EST; ss; OS: Homo sapiens.
 PN: EP-877030-A2.
 PD: 11-NOV-1998.
 PF: 07-MAY-1998; 303597.
 PR: 01-MAY-1998; US-071342.
 PR: 07-MAY-1997; US-045890.
 PA: (SMIK) SMITHKLINE BECKMAN CORP.
 PT: Dillon S, Lord K;
 DR: WPI; 98-57499/49.
 PT: New EPO primary response gene polyptides and polynucleotides useful as diagnostic reagents and for prevention and treatment of cancer and autoimmune and inflammatory diseases.
 PS: Claim 13: Page 22-23; 25pp; English.
 This sequence encodes a novel human EPO primary response gene 1 (EPRG1) polypeptide derived from expressed sequence tags (EST's). EPRG1 polypeptides and polynucleotides are useful for diagnosing a disease or susceptibility to a disease by detecting mutations in the EPRG1 gene

78 CysGlyPhenylTyrPheGlyProleuSerValHisGlyAlaHisGluArgLeu 94
 |||||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:
 157 ACCGGCCTCTACTGGAGCGGTGACCGGGCGAGGGCAGCTCTGCT 206
 94 ArgAlaGluProLysGlyLysPheLeuValArgSerAlaArgGlyArg 111
 |||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:
 207 CAGTGCAGGAGCCGCGGGCAGCTTGTATCGCGACAGCTCGGACAGC 256
 111 SerCysPhePheAlaLeuSerValLysMetAlaSerGlyProThrSerIle 127
 ::|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:
 257 GGCACCTCTTCAACGGCAGGCTGAGGAGCAAGCTGGGACAAACCTG 306
 143 ValThr.....PhenylAspCysteinePheLeuLeuIleGluHist 155
 ::|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:
 357 GAGGCAAGCCCCGTGCCCGCTCTGACTGCCTGCCTCTGAGGCCAG 406
 128 ArgValHisPheGlnAlaGlyArgPheIleSerAspGlySer...Arg1 143
 ::|||:|||:|||:|||:|||:|||:|||:|||:|||:
 307 CGCATCCAGTCAGTGGAGGGGGCGCTCTCTGAGGCCAGCTCCGGAG 356
 143 ValThr.....PhenylAspCysteinePheLeuLeuIleGluHist 155
 ::|||:|||:|||:|||:|||:|||:|||:|||:
 357 GAGGCAAGCCCCGTGCCCGCTCTGACTGCCTGCCTCTGAGGCCAG 406
 155 ValVal..... 156
 407 ACATGCAGCCCCCTGAGCCCTCTTCCCTGCCACCTACTGAGACCC 456
 |||:|||:
 157AlaAl 158
 ::|||:
 457 TCTTCGAGGGGCCGAGCAGGCCGCTGCCCCACTCTGGAGTC 506
 ::|||:
 158 AProArgArg 162
 ::|||:
 507 CCCAGAGAGGCTTACATCTACTCCGGGGCAGAGAGATCCCCCTGG 556
 ::|||:
 162 ArgLeuGlyAlaProLeuArgArgLysArgArgValArgProLeuGlnLeu 178
 ::|||:
 557 TGTGAGCCGCCCTC..TCTCTAACCTGGCCACCTCTGCTACATCTGAC 603
 ::|||:
 179 CysArgGlnArgAlaLeuAlaAlaL...GlyArgGluAsnLeuAla 194
 ::|||:
 604 TGTCTGGAAAGACGTCACGGCACCTGGACTCTATGAGAAAGTCACCA 653
 ::|||:
 194 GlnProLeuAlaSerProValLeuArgAspPheTyrLeuSerSerPhe 208
 ::|||:
 654 OCTGGCG...GGGCCATT...CGGGAGTCTCTGGACCAAGTAC 690

using probes containing the ERG1 nucleotide sequence, or determining ERG1 polypeptide or mRNA expression levels. ERG1 polypeptides can be used to screen for agonists and antagonists which bind the ERG1 polypeptide by measuring resulting mRNA levels with ELISA. These can be used in treatment to activate (agonist) or inhibit (antagonist) e.g. ERG1 ligand, receptor or substrate) ERG1 activity. In addition to direct administration of antisense sequences to prevent expression, or ERG1 polypeptides to treat conditions associated with a lack of ERG1 protein, gene therapy may also be used to affect endogenous ERG1 polypeptide production. ERG1 antibodies are useful for inducing an immune response to immunise and prevent diseases, and for isolating ERG1 clones or purifying the polypeptides by affinity chromatography. ERG1 polypeptides can be administered directly or as a vaccine to inoculate against disease, by inducing an antibody and T-cell response. Diseases diagnosed, prevented or treated include anaemia, polycythaemia, cancer, neutropenia, AIDS, drug-induced anaemia, diabetes, myelosuppression, autoimmune diseases, rheumatoid arthritis and multiple sclerosis, and inflammatory diseases, including asthma and allergies. The ERG1 polypeptide is also useful for mapping the gene to a chromosome, allowing gene inheritance tcc analysis to be studied through linkage analysis. The 3'-UTR segment of ERG1 RNA may be useful to screen for agents which modulate RNA stability and turnover rate.

```

158 aproAArgArg ..... M
      :::::::::::::::::::::
507 CCCAGAGAGCCTTATACATCTACTCCGGGGCAGAAGATCCCCCTGG
162 etleugiyalproteuarrglnaargargvalargProleuglnleu
      ::::::::::::: ::::::::::::: ::::::::::::: :::::::::::::
557 TGTGTGAGCCGCCCTCT .. TCTCTAACCTGGCACTCTTCAGCATCTC
179 CysArgGlnArgLeuAlaAlaAlaLeuAlaLeuAlaLeuAlaLeuAla
      ::::::::::::: ::::::::::::: ::::::::::::: :::::::::::::
604 TGTGGAAAGACCGTCACGGCACCTGGACTCTTGTAGAAAGTCACCCA
194 gileProLeuAsnProValLeuATGAspTYrLeuSerSerPhe 208
      ::::::::::::: ::::::::::::: ::::::::::::: :::::::::::::
654 ACTGCCCC...GGGCCATT..CGGGAGTACTGGACCAAGTAC 690
seq_name: N_Geneseq_36:196002

```


306 TGTAGGGGGCAGCTTTCGCGAGACCCCGAAGCACGCC 355
 145PhAspCysLeuPheGluLeuLeuGluLysIleVal... 156
 356 AGTTCGGCTTGACIGTGACTCACTGGTGCCACCACTACATGCC 405
 156 156
 406 CTCAGGGACCCCTCCCTTGCCACCCAGGGACCCCTGGCGA 455
 157 157
 506 AGCTTACACATATCTGGGGGGAGAGTCCTCCGCTGGRACTGAGC 555
 161 g 161
 456 GTTCGGGAGCAGCCTGGCCAGGACTCCCGGGAGTACCCCAAGAG 505
 161 g 161
 506 AGCTTACACATATCTGGGGGGAGAGTCCTCCGCTGGRACTGAGC 555
 165 laProLeuArgGlnIArgValArgProLeuLysIleLeuGlyArgGln 181
 556 GACCTCTC..TCCTCACGTCGGCACCTCCAGCACTTGTGCGAG 602
 182 ArgIleValAlaAlaVal...GlyArgGluAlaLeuAlaArgIleProle 197
 603 ACTGTCAACGGCCACCTGACTCTTGTGAGAAAGTGACCCAGCTGCCT.. 650
 197 uAsnProValLeuArgAspTyRLeuSerSerPhe 208
 651 .GGACCCATT..CGGGAGTTCTGGATCACTAT 680
 seq_name: N_Geneseq_36:V34188
 seq_documentation_block:
 ID V34188 standard: DNA: 2378 BP.
 AC V34188:
 DT 28-JAN-1999 (first entry)
 DE Human secreted protein gene 35 clone HTXAK60.
 KW Human; secreted protein; fusion protein; gene therapy; protein therapy;
 KW diagnosis; tissue; cancer; tumour; neurodegenerative disorder; leukaemia;
 KW developmental abnormality; foetal deficiency; blood; allergy; renal; ds;
 KW immune system; asthma; lymphocytic disease; brain; hepatic; lymphoma;
 KW inflammation; ischaemic shock; Alzheimer's disease; restenosis; AIDS;
 KW cognitive disorder; schizophrenia; prostatitis; obesity; osteoelast; thymus;
 KW osteoporosis; arthritis; testis; lung; thyroiditis; thyroid; digestion;
 KW endocrine; metabolism; regulation; malabsorption; gastritis; neoplasm;
 OS Homo sapiens.
 PN W0983946-A2.
 PD 11-SEP-1998.
 PR 06-MAR-1998; US-04492.
 PR 07-MAR-1997; US-038621.
 PR 07-MAR-1997; US-040161.
 PR 07-MAR-1997; US-040162.
 PR 07-MAR-1997; US-040163.
 PR 07-MAR-1997; US-04033.
 PR 07-MAR-1997; US-04034.
 PR 07-MAR-1997; US-04035.
 PR 07-MAR-1997; US-04036.
 PR 11-APR-1997; US-04331.
 PR 11-APR-1997; US-043312.
 PR 11-APR-1997; US-043313.
 PR 11-APR-1997; US-043314.
 PR 11-APR-1997; US-043315.
 PR 11-APR-1997; US-04358.
 PR 11-APR-1997; US-04359.
 PR 11-APR-1997; US-043576.
 PR 11-APR-1997; US-043578.
 PR 11-APR-1997; US-043580.
 PR 11-APR-1997; US-043669.
 PR 11-APR-1997; US-043670.
 PR 11-APR-1997; US-043671.
 PR 11-APR-1997; US-043672.
 PR 11-APR-1997; US-043674.
 PR 23-MAY-1997; US-047492.
 PR 23-MAY-1997; US-047500.
 PR 23-MAY-1997; US-047501.
 PR 23-MAY-1997; US-047502.
 PR 23-MAY-1997; US-047503.
 PR 23-MAY-1997; US-047581.
 PR 23-MAY-1997; US-047582.
 PR 23-MAY-1997; US-047583.
 PR 23-MAY-1997; US-047584.
 PR 23-MAY-1997; US-047585.
 PR 23-MAY-1997; US-047586.
 PR 23-MAY-1997; US-047587.
 PR 23-MAY-1997; US-047588.
 PR 23-MAY-1997; US-047589.
 PR 23-MAY-1997; US-047590.
 PR 23-MAY-1997; US-047592.
 PR 23-MAY-1997; US-047593.
 PR 23-MAY-1997; US-047594.
 PR 23-MAY-1997; US-047595.
 PR 23-MAY-1997; US-047601.
 PR 23-MAY-1997; US-047612.
 PR 23-MAY-1997; US-047613.
 PR 23-MAY-1997; US-047614.
 PR 23-MAY-1997; US-047615.
 PR 23-MAY-1997; US-047618.
 PR 23-MAY-1997; US-047632.
 PR 06-JUN-1997; US-048964.
 PR 06-JUN-1997; US-048974.
 PR 22-AUG-1997; US-056630.
 PR 22-AUG-1997; US-056631.
 PR 22-AUG-1997; US-056632.
 PR 22-AUG-1997; US-056636.
 PR 22-AUG-1997; US-056637.
 PR 22-AUG-1997; US-056662.
 PR 22-AUG-1997; US-056664.
 PR 22-AUG-1997; US-056845.
 PR 22-AUG-1997; US-056862.
 PR 22-AUG-1997; US-056864.
 PR 22-AUG-1997; US-056872.
 PR 22-AUG-1997; US-056874.
 PR 22-AUG-1997; US-056875.
 PR 22-AUG-1997; US-056876.
 PR 22-AUG-1997; US-056877.
 PR 22-AUG-1997; US-056878.
 PR 22-AUG-1997; US-056879.
 PR 22-AUG-1997; US-056880.
 PR 22-AUG-1997; US-056881.
 PR 22-AUG-1997; US-056882.
 PR 22-AUG-1997; US-056884.
 PR 22-AUG-1997; US-056886.
 PR 22-AUG-1997; US-056887.
 PR 22-AUG-1997; US-056888.
 PR 22-AUG-1997; US-056889.
 PR 22-AUG-1997; US-056892.
 PR 22-AUG-1997; US-056893.
 PR 22-AUG-1997; US-056894.
 PR 22-AUG-1997; US-056895.
 PR 22-AUG-1997; US-056903.
 PR 22-AUG-1997; US-056908.
 PR 22-AUG-1997; US-056909.
 PR 22-AUG-1997; US-056910.
 PR 22-AUG-1997; US-056911.
 PR 05-SEP-1997; US-057650.
 PR 05-SEP-1997; US-057761.
 PR (HUMAN) HUMAN GENOME SCI INC.
 PR Bednarik DP, Brewer LA, Carter KC, Duan R, Ebner R, Endress GA,
 PR Feng P, Ferrie AM, Fischer CL, Graves KA, Greene JM, Hu JS,

PI Kyaw H, Lafleur DW, Li Y, Moore PA, Ni J, Olsen HS, Rosen CR,
 PI Ruben SM, Shi Y, Soppet DR, Young PE, Yu GL, Zeng Z;
 DR WPI: 98-609887/51.
 P-PSDB: W75091.

PT New isolated human genes and the secreted polypeptides they encode
 - useful for diagnosis and treatment of e.g. cancers, neurological
 disorders, immune diseases, inflammation or blood disorders
 (e.g. V34145) for increasing the stability of the fused protein as
 compared to the human protein only.

CC This sequence represents a nucleic acid molecule which encodes a secreted
 human protein. The gene number, and the clone it is derived from, are
 detailed in the descriptor line. The gene can be used to generate fusion
 proteins by linking to the gene to a human immunoglobulin Fc portion
 (e.g. V34145) for increasing the stability of the fused protein as
 compared to the human protein only.

CC The invention relates to 70 novel genes and their fragments (nucleic acid
 sequences: V34154-V34276; amino acid sequences W75057-W75119) which
 are useful for preventing, treating or ameliorating medical conditions
 e.g. by protein or gene therapy. Also, pathological conditions can be
 diagnosed by determining the amount of the new polypeptides in a sample
 or by determining the presence of mutations in the new polynucleotides.
 Specific uses are described for each of the 70 polynucleotides, based on
 which tissues they are most highly expressed in (see V34154 for described
 uses).

SQ Sequence 2378 BP; 518 A; 650 C; 662 G; 506 T;

alignment_scores:

Quality: 221.00

Length: 242

Ratio: 1.601

Percent Identity: 30.992

Percent Similarity: 57.025

Length: 11

Gaps: 11

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Align seg 1/1 to: V38681 from: 1 to: 848

75 LeuaspalaGysGlyPheTyrTrpGlyProLeuSerValHisGlyAlaHs 91
 |||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:
 1 TGCGGAAAGCTGGTGTATGGGGCCATGAAATGGGAGANGCAGA 50

91 sGluargLeuArgAlaGluProValGlyLysPheLeuValArgAspSerA 108
 :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:
 51 GATGAGGCTGAAACCGAGTCCTGCTTCGTCAGTTCAGTCACAGGTATCACC 100

108 RggInArgAspCysPhePhePheLeuSerValLysMetAlaSerGlyPro 124
 :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:
 101 CTGATCCTCGTACATCCTGGCCCTAGTCAGTCAGTCACAGGTATCACC 150

125 ThrSerIleGlyValHisPheGlnAlaGlyArgPheHisLeu..... 138
 |||:|||:|||:|||:|||:|||:|||:|||:
 151 CACCACTAGAACTGGAGCACTACAGAGGACCTTCAGGCCGGGTCA 200

151 euLeuGluHis..... 154
 :|||:
 251 CCATTGCACTCCAGAATGGAAGTTCTCTATTCAGTCAGG 300

155TyrValAlaAlaProArgMetLeuGlyAlaProLeuAla 168
 :|||:|||:|||:|||:|||:|||:
 301 GTTCCAGGAGTCGACCACTCTGTCAGTCATCCAGTGGCG 350

168 GlnInargArgValArgProLeuGlyProLeuGlyArgMetLeuAla 185
 :|||:|||:|||:|||:|||:|||:
 351 ATTCGAACTGTCATCCCTCCAGCACCTTGACATTCGGATACGAC 400

185 LaAlaValGlyArgGluAspLeuAlaArgLysProLeuAsnProLeu 201
 |||:|||:|||:|||:|||:
 401 AGCTGTCAGATAGTCACATCCCAGATCCACTGCCAAACCTCTG 450

202 ArgAspTyrLeuSerSerPhe 208
 :|||:|||:|||:
 451 ATCTCTTAAATCCGAAAGTTC 471

seq_name: N_Geneseq_36.v38668

seq_documentation_block:
 ID V38668 standard; DNA; 1221 BP.
 AC V38668;
 PR 27-OCT-1998 (first entry)

DE Homo sapiens SC55 gene.

KW SOCS: suppressor of cytokine signalling; PCR primer;
 autoimmune disease; diagnosis; cancer; treatment;
 cytokine mediated cellular responsiveness; hyperimmunity;
 immunosuppression; allergies; hypertension; ss.
 Homo sapiens.

OS Homo sapiens.

PN W0820023-A1.

PD 14-MAR-1998.

PF 31-OCT-1997; AU0729.

PR 01-FEB-1997; AU-005117.

AC V38684.

PR 01-NOV-1995; AU-003384.

DE (HALL-) HALL, INST MEDICAL RES WALTER & ELIZA.

PI Alexander WS, Hilton DJ, Metcalf D, Nicholson SE,
 Nicola NA, Richardson RT, Starr R, Viney EM, Wilson TA;
 WPI: 98-286854/25.

PT Suppressor of cytokine signalling proteins - useful to treat
 disease, injury or abnormality involving cytokine mediated cellular
 responses, e.g. hyperimmunity, immunosuppression, allergies and
 hypertension.

PT Disclosure: Page 134-135; 325pp; English.

CC The sequence is that of a gene encoding a suppressor of cytokine
 signalling protein (SOCS). SOCS can be used to screen for naturally
 occurring antibodies to SOCS, which may occur, e.g. in some autoimmune
 diseases. Alternatively, specific antibodies can be used to

align_scores:
 Quality: 145.00 Length: 142
 Ratio: 1.790 Gaps: 4
 Percent Similarity: 57.042 Percent Identity: 29.577

alignment_block:
 US-08-962-560A-4 x V38668 ..

Align seg 1/1 to: V38668 from: 1 to: 1221

81 TyTrpGlyProLeuSerValHisGlyAlaHisGluargLeuargAlaG 97
 :|||:|||:|||:|||:|||:
 446 TACTGGGAGTGTGGACCGTATGAGCAGGCCCTCTGGAGGMA 495

97 upProvAlaGlyLysPheLeuValArgPserArgGlnLysAspCysPheP 114
 :|||:|||:|||:|||:|||:
 131 PheGlnAlaGlyArgPheHisLeuAspGlySerArgGluLysPheAspC 147
 :|||:|||:|||:
 496 ACCTGAAGCACCCTTGTCTAGGGCTCTGGCAAGGGACTCTGGCAAGGGACTCT 545

114 healaLeuSerValLysMetAlaSerGlyProLysSerLeuArgValHis 130
 :|||:|||:|||:|||:
 546 TCTCTGAGCTTCGGCGATCACAGATCCCTGAGGCCGATATGAG 595

147 sIeuPheGlu..... 158 LeuLeuGlyLysIleValAlaA 158
 :|||:|||:
 637 IGRATTCATCTCCACTGTAACGGGACTTTAGACATTAAGAGTC 686

158 LaProArgArgMetLeuGlyAlaProLeu..... ArgInArgArg 171
 :|||:
 687 CCAGTTCTGCGCAGTTTTGAACTATGCTTACTATATCAGTAATAGG 736

172 ValArgPro..... LeuGlnGluLeuGlyArgLysGlnArgIleValAla 186
 :|||:
 737 ACTTCCCTTATGCCAGTATTCGCGCGGTAATCGCAGTC 786

186 avAlaGlyArgGluAsnLeuAlaArgLysProLeuAsnProLeuLeuA 203
 :|||:|||:|||:
 787 CACTACGTTAGGAACTGATGGCTCCCTACCCCTCATGTACAGG 836

203 SPYLeuSerSerPheProPheDln 211
 :|||:|||:|||:
 837 ATTTTTAAAGAGTACATTAATAA 862

seq_name: N_Geneseq_36.v38687

seq_documentation_block:
 ID V38687 standard; cDNA; 2438 BP.
 AC V38687;
 PR 27-OCT-1998 (first entry)

DE Mus musculus SOCS14 cDNA.

KW SOCS: suppressor of cytokine signalling; PCR primer;
 autoimmune disease; diagnosis; cancer; treatment;
 cytokine mediated cellular responsiveness; hyperimmunity;
 immunosuppression; allergies; hypertension; ss.

PT Mus musculus.

FH Key Location/Qualifiers
 FT CDS 2..1630
 FT /*tag= a
 FT /product= SOCS14 protein

PN W0820023-A1.

PD 14-MAR-1998.

PR 31-OCT-1997; AU0729.

